

\*SEND

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OM nucleic - nucleic search, using sw model

Run on: April 27, 2004, 08:59:48 ; Search time 106 Seconds  
(without alignments)  
6120.166 Million cell updates/sec

Title: US-09-899-645A-1

Perfect score: 1169

Sequence: 1 gagctccacgcggtgcccgcg.....tcgagggggggcccggtacc 1169

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.\*

- 1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1081	92.5	1100	4	US-09-614-912-109
2	1016	85.9	1083	4	US-09-614-912-119
3	548.2	45.9	1414	4	US-09-614-912-111
4	530.6	43.4	1312	4	US-09-614-912-121
5	314.6	28.9	1225	4	US-09-614-912-115
6	309.6	28.5	1756	4	US-09-614-912-117
7	118.6	10.1	627	4	US-09-614-912-123
8	110.2	9.4	477	4	US-09-614-912-125
9	101.8	8.7	903	4	US-09-252-991A-3827
10	101.8	8.7	1311	4	US-09-252-991A-3685
11	87	7.4	1098	2	US-08-872-784-2
12	87	7.4	1098	2	US-09-100-851-2
13	87	7.4	1098	3	US-09-265-294-2
14	81.6	7.0	879	4	US-09-543-681A-1785
15	75.8	6.5	312	4	US-09-252-991A-3737
16	73.4	6.3	380	4	US-09-702-705-545
17	73.4	6.3	380	4	US-09-736-457-545
18	73.4	6.3	380	4	US-09-614-124B-545
19	73.4	6.3	380	4	US-09-671-325-545
20	73.4	6.3	380	4	US-09-589-184-545
21	73	6.2	4148	4	US-09-435-019-13
22	73	6.2	4148	4	US-09-435-019-15
23	72.6	6.2	530	4	US-09-614-912-113
24	72.4	6.2	632	4	US-09-489-847-56
25	72.2	6.2	1500	4	US-09-685-462-1
26	71.8	6.1	3089	1	US-08-472-934-5
27	71.8	6.1	3089	2	US-08-323-460A-5

SEQUENCE REPORT

28	71.8	6.1	3089	2	US-08-461-146C-5	Sequence 5, Appli
29	71.8	6.1	3089	3	US-08-461-145C-5	Sequence 5, Appli
30	71.8	6.1	3089	4	US-08-638-829-9	Sequence 9, Appli
31	71.2	6.1	3328	3	US-08-960-048-1	Sequence 1, Appli
32	71.2	6.1	3328	4	US-09-838-586-1	Sequence 1, Appli
33	70.8	6.1	1378	1	US-08-075-533-20	Sequence 20, Appli
34	70.8	6.1	1378	2	US-08-948-176-20	Sequence 20, Appli
35	70.8	6.1	1378	5	PCT-US91-09160-20	Sequence 20, Appli
36	70.8	6.1	1774	4	US-09-489-847-17	Sequence 17, Appli
37	70.8	6.1	2045	3	US-08-795-088A-1	Sequence 1, Appli
38	70.6	6.0	368	4	US-09-489-847-121	Sequence 121, App
39	70	6.0	545	4	US-09-227-357-125	Sequence 125, App
40	70	6.0	1556	3	US-09-043-937A-3	Sequence 3, Appli
41	70	6.0	2085	2	US-08-668-128B-7	Sequence 7, Appli
42	70	6.0	2085	2	US-08-905-445-7	Sequence 7, Appli
43	69.8	6.0	819	4	US-09-435-019-25	Sequence 25, Appli
44	69.4	5.9	867	4	US-09-204-865-8	Sequence 8, Appli
45	69.4	5.9	906	4	US-09-489-847-72	Sequence 72, Appli

ALIGNMENTS

RESULT 1

US-09-614-912-109  
; Sequence 109, Application US/09614912  
; Patent No. 6677502  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Rafalski, Antoni  
; APPLICANT: Orozco, Buddy  
; APPLICANT: Miao, Gou-Hau  
; APPLICANT: Famodu, Omolayo O.  
; APPLICANT: Lee, Jian Ming  
; APPLICANT: Sakai, Hajime  
; APPLICANT: Weng, Zude  
; APPLICANT: Caimi, Perry G  
; APPLICANT: Anderson, Shawn  
; TITLE OF INVENTION: Plant Metabolism Genes  
; FILE REFERENCE: BB1378 US NA  
; CURRENT APPLICATION NUMBER: US/09/614,912  
; CURRENT FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: 60/143,401  
; PRIOR FILING DATE: 1999-07-12  
; PRIOR APPLICATION NUMBER: 60/143,412  
; PRIOR FILING DATE: 1999-07-12  
; PRIOR APPLICATION NUMBER: 60/146,650  
; PRIOR FILING DATE: 1999-07-30  
; PRIOR APPLICATION NUMBER: 60/170,906  
; PRIOR FILING DATE: 1999-12-15  
; PRIOR APPLICATION NUMBER: 60/172,959  
; PRIOR FILING DATE: 1999-12-21  
; PRIOR APPLICATION NUMBER: 60/172,946  
; PRIOR FILING DATE: 1999-12-21  
; NUMBER OF SEQ ID NOS: 204  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 109  
; LENGTH: 1100  
; TYPE: DNA  
; ORGANISM: Zea mays  
US-09-614-912-109

Query Match 92.5%; Score 1081; DB 4; Length 1100;  
Best Local Similarity 99.5%; Pred. No. 0;  
Matches 1084; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy	60	CGGACAGAGACGTGTGATTCCTCTAAAATGGTGCATAGTTGCATGCAATTTCTTG 119
Db	12	CAGCATCCAGACGTGTGATTCCTCTAAAATGGTGCATAGTTGCATGCAATTTCTTG 71
Qy	120	TTGCTGAGACATAACATACCGATATATATCAAGTTTCATCGGCACGTCGATGATCCA 179
Db	72	TTCTGAGACATAACATACCGATATATATCAAGTTTCATCGGCACGTCGATGATCCA 131

421	ATGAGATTTTGTGAAGGTTTCAGGTCCTCAACATATAA	CCAAAGCTTAAACTACTCGGTTTAG	480
421	ATGAGATTTTGTGAAGGTTTCAGGTCCTCAACATATAA	CCAAAGCTTAAACTACTCGGTTTAG	480
481	AGCTCCAGGGAAACTCTCAGACGACCAAGCTCTACACAGATGTGTTCTAGCATATGCTTC	540	
481	AGCTCCAGGGAAACTCTCAGACGACCAAGCTCTACACAGATGTGTTCTAGCATATGCTTC	540	
541	GGATCTACTATTTTCTGGGGTGAGCCTTAAACCTTCATCGGAGAGGGTTTGAAGACATA	600	
541	GGATCTACTATTTTCTGGGGTGAGCCTTAAACCTTCATCGGAGAGGGTTTGAAGACATA	600	
601	CTGCCTCAGCTCTTGACCATTCCTCATCTGCTTCCACAAACCTGTGAAGGCTCGACGAATGCGAT	660	
601	CTGCCTCAGCTCTTGACCATTCCTCATCTGCTTCCACAAACCTGTGAAGGCTCGACGAATGCGAT	660	
661	GCTGTATGTATCGAGAGGCCATCTGCGCAGCGGTGCGCGGTTTCGTCACCGAGCGCAT	720	
661	GCTGTATGTATCGAGAGGCCATCTGCGCAGCGGTGCGCGGTTTCGTCACCGAGCGCAT	720	
721	GTTTCACAGCGCAAGGAGAGCTTATCATGTCGCTGACCCCAAGAGGCAATTGATTCGAAGGGGA	780	
721	GTTTCACAGCGCAAGGAGAGCTTATCATGTCGCTGACCCCAAGAGGCAATTGATTCGAAGGGGA	780	
781	GAAGCCGCGAGGACCAAAATCCGAGGCCGAAAGCTTTGAGGCACTTGAAGTCTGCAAGTC	840	
781	GAAGCCGCGAGGACCAAAATCCGAGGCCGAAAGCTTTGAGGCACTTGAAGTCTGCAAGTC	840	
841	GACTGTAGAGGATCCCAACCGAGCTTTGAGAGGGCGCACCATCTCTTAATTTGGTT	900	
841	GACTGTAGAGGATCCCAACCGAGCTTTGAGAGGGCGCACCATCTCTTAATTTGGTT	900	
901	TAGATATTTATGAATTCACAAAACAAAATATAGAAATATCAAGCAGTATATAAGATCTCAA	960	
901	TAGATATTTATGAATTCACAAAACAAAATATAGAAATATCAAGCAGTATATAAGATCTCAA	960	
961	GTCAAACTTAACATTTTTTTTTCATTTCTCCGAGTGAATTTCTATTTGTTTGGTGTGTG	1020	
961	GTCAAACTTAACATTTTTTTTTCATTTCTCCGAGTGAATTTCTATTTGTTTGGTGTGTG	1020	
1021	TGGTTGAGGGGTATTTGGAAGCGGAAGCGAGCGGGTTTGATACTTTTAGGCTATTT	1080	
1021	TGGTTGAGGGGTATTTGGAAGCGGAAGCGAGCGGGTTTGATACTTTTAGGCTATTT	1080	
1081	CCTGCAGCTTACTTTTCATTTATACGACAGTATATATACATATTTAAACTTCAAAAAAAA	1140	
1081	CCTGCAGCTTACTTTTCATTTATACGACAGTATATATACATATTTAAACTTCAAAAAAAA	1140	
1141	AAAAAAACTCGAGGGGGGCCGGTACC	1169	
1141	AAAAAAACTCGAGGGGGGCCGGTACC	1169	

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RESULT 3
US-60-172-946-1
; Sequence 1, Application US/60172946
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Ping, Chun
; TITLE OF INVENTION: Palmitoyl-Acyl-ACP Thioesterases in Plants
; FILE REFERENCE: BB1428 US PRV
; CURRENT APPLICATION NUMBER: US/60/172,946
; CURRENT FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Zea mays
US-60-172-946-1

Query Match          92.5%   Score 1081;   DB 73;   Length 1100;
Best Local Similarity 99.5%   Pred. No. 5.3e-189;

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Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
DB 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
QY 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120
DB 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120
QY 121 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 180
DB 121 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 180
QY 181 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 240
DB 181 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 240
QY 241 KL 242
DB 241 KL 242

RESULT 2
US-09-899-645A-2
; Sequence 2, Application US/09899645A
; GENERAL INFORMATION:
; APPLICANT: Li, Chun Ping
; APPLICANT: Zheng, Peizhong
; APPLICANT: Nichols, Scott
; TITLE OF INVENTION: METHODS FOR REGULATING BETA-OXIDATION IN PLANTS
; FILE REFERENCE: 35718/235742
; CURRENT APPLICATION NUMBER: US/09/899,645A
; PRIOR FILING DATE: 2001-07-05
; PRIOR FILING DATE: 2000-07-06
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Zea mays
US-09-899-645A-2

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Query Match 100.0%; Score 1281; DB 23; Length 242;
Best Local Similarity 100.0%; Pred. No. 3.6e-135;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
DB 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
QY 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120
DB 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120
QY 121 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 180
DB 121 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 180
QY 181 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 240
DB 181 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 240
QY 241 KL 242
DB 241 KL 242

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RESULT 3
US-60-172-946-2
; Sequence 2, Application US/60172946
; GENERAL INFORMATION:

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; APPLICANT: Allen, Steve
; APPLICANT: Ping, Chun
; TITLE OF INVENTION: Palmitoyl-Acyl-ACP Thioesterases in Plants
; FILE REFERENCE: BB1428 US PRV
; CURRENT APPLICATION NUMBER: US/60/172,946
; CURRENT FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 2
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Zea mays
US-60-172-946-2

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Query Match 100.0%; Score 1281; DB 33; Length 255;
Best Local Similarity 100.0%; Pred. No. 3.9e-135;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
DB 14 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 73
QY 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120
DB 74 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 133
QY 121 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 180
DB 134 QHKPSLNWFRARGKLSDDQALHRCVAYASDLLFSGVSLNPHREKGLKTYCLSLDHSIW 193
QY 181 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 240
DB 194 FHKPVKADEWMLYVIESPSAHGGRGFTVGRMFRNQELIMSLTQALIRREKPRGPNRP 253
QY 241 KL 242
DB 254 KL 255

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RESULT 4
US-10-219-999-45264
; Sequence 45264, Application US/10219999
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Edgerton, Michael D
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Stein, Joshua
; TITLE OF INVENTION: CDNA SEQUENCES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-10(52726)C
; CURRENT APPLICATION NUMBER: US/10/219,999
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: US 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: US 60/312,544
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 63520
; SEQ ID NO 45264
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Zea mays
US-10-219-999-45264

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Query Match 98.9%; Score 1267; DB 28; Length 424;
Best Local Similarity 98.8%; Pred. No. 3.1e-133;
Matches 239; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 60
DB 183 MVHSLHAIFLVAGDNNIPPIYQVHRARDGSSPATRKVEAKQKGLVVFVTLIASFQKEEVGF 242
QY 61 EQQAAMPDVPPEQLLNLEERERRLTDPFPSSQYRNLAACKKFIWPPIEMRCEGSAS 120

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